

Linear Equations Formula Sheet:

<p>Slope-Intercept Form:</p> $y = mx + b$ <p>slope = m x-int = $-b/m$ y-int = b</p>	<p>Point-Slope Form:</p> $y - y_1 = m(x - x_1)$ <p>slope = m point: (x_1, y_1)</p>	<p>Standard Form:</p> $Ax + By = C$ <p>slope = $-A/B$ x-int = C/A y-int = C/B</p>	<p>Intercept Form:</p> $\frac{x}{a} + \frac{y}{b} = 1$ <p>slope = $-b/a$ x-int = a y-int = b</p>
<p>Slope Formula:</p> $m = \frac{y_2 - y_1}{x_2 - x_1}$	<p>X-Intercept:</p> <p>Set $y = 0$, Solve for x.</p> <p>Y-Intercept:</p> <p>Set $x = 0$, Solve for y.</p>	<p>Midpoint Formula:</p> $M = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$	<p>Distance Formula:</p> $D = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$
<p>Horizontal Lines:</p> $m = 0$ $y = k$	<p>Vertical Lines:</p> $m = \text{undefined}$ $x = h$	<p>Parallel Lines:</p> $m_1 = m_2$	<p>Perpendicular Lines:</p> $m_1 = \frac{-1}{m_2}$